SCOTTS® Pendimethalin

No one can offer you a more effective preemergent weed control.

Scotts ProTurf®

And here are 7 reasons why:

1. **Broad Spectrum Control** - Prevents sprouting of six annual grassy weeds and nine annual dicot weeds.

2. **Control Effectiveness** - No other single preemergent herbicide controls so many weeds so well.

3. **Season-Long Control** - Pendimethalin's unique chemical properties allow for maximum performance season long.

4. **Application Flexibility** - Pendimethalin gives you more flexibility in programming preemergent applications.

5. **Scott Formulation Advantage** - Scott's smaller, uniformly sized particles provide better coverage with fewer application breaks and more effective control.

6. **Turf Safety** - When used as directed on a variety of cool and warm season turf grasses.

7. **Formulation Flexibility** - Your Scott Tech Rep is ready to help you select the right formulations to best meet your preemergent program needs.

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Since 1984, SCOTTS® pendimethalin preemergent control products have provided the toughest, most cost-effective control of a broad spectrum of grassy and broadleaf weeds.

When selecting a preemergent herbicide, it is important to understand all the performance capabilities and limitations of the products you are considering. Season-long crabgrass control is only one aspect of a comprehensive weed control program, and pendimethalin provides it. But pendimethalin also offers performance advantages over other preemergent weed control products, advantages that will favorably impact your total turfgrass management program.

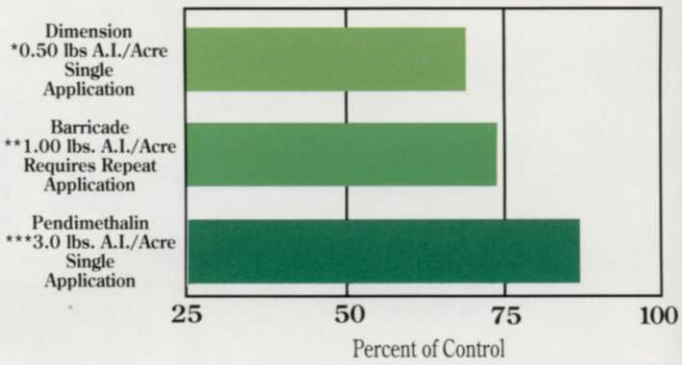
Broad Spectrum Control

Pendimethalin effectively prevents sprouting of six annual grassy weeds and nine annual dicot weeds. No other single preemergent turf herbicide can match pendimethalin's broad spectrum control of these important weeds.

Control Effectiveness

Your choice of a preemergent herbicide will impact other aspects of your weed control program. An effective preemergent will provide a high level of control on a wide variety of grassy and broadleaf weeds resulting in fewer costly and time consuming postemergent herbicide applications during the season. Pendimethalin provides superior performance on troublesome weeds such as goosegrass and oxalis.

Goosegrass Control Comparison



* The maximum label rate of 0.50 lbs A.I./Acre/Year will only provide suppression of goosegrass in the South. Dimension is a trademark of Monsanto Company.
** Repeat applications are required to control goosegrass. Product was applied at 0.75 lbs. A.I./Acre with a repeat application at 0.25 lbs. A. I./Acre. Barricade is a trademark of Sandoz Limited.
*** In the South, pendimethalin may be applied as a single 3.0 lb A.I./Acre application or as two 1.50 lb A.I./Acre applications for the control of goosegrass.

Preemergent Co		
	Crab-grass	Goose-grass
Dimension	**H**	**M**
Barricade	**H**	**M**
Pendimethalin	**H**	**H**

H = High level of control
(Based on Sco

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Season-Long Control

One of the major strengths of pendimethalin is its ability to provide season-long preemergent weed control. In cool season turf areas pendimethalin provides early control of crabgrass, season-long with a single, properly timed application.

In warm season turf areas where weed pressure is generally more severe, pendimethalin allows preemergent control of crabgrass, goosegrass and other troublesome weeds with a single, properly timed application.

Pendimethalin's favorable chemical properties allow for maximum performance in these critical areas:

- Ability to move into the zone of weed seed germination and maintain a viable barrier.
- Stability on the soil surface to minimize loss following application.
- Sufficient soil longevity to provide effective residual weed control.

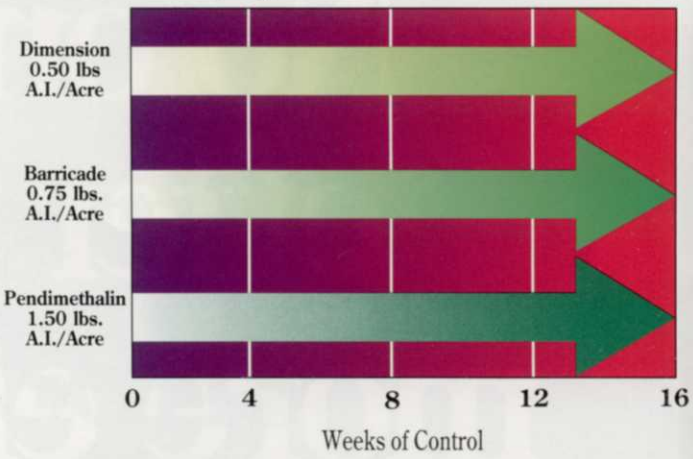
ontrol Comparison

	Foxtail	Poa Annua	Oxalis	Spurge
	H	**M**	**H**	**M**
	H	**M**	**M-H**	**M**
	H	**M**	**H**	**M**

M = Medium level of control
OTTS/university data)

Season-Long Crabgrass Control Comparison

Single Application/Weeks of 90+% Control



Approved label directions and allowable rates are based on extensive testing to assure responsible use of control products. Pendimethalin's label offers an important advantage in this area by allowing the turf manager to choose from a wide range of product rates and application timing choices.

Pendimethalin compares well to Dimension and Barricade in the following key areas:

Unlike Dimension:

1. Pendimethalin can be applied as a split- or single-rate application for crabgrass control in the North and/or as a split- or single-rate application for crabgrass and goosegrass control in the South.
2. Pendimethalin outperforms Dimension on the control of goosegrass. Dimension is labeled for goosegrass suppression only in the South.

Unlike Barricade:

1. Pendimethalin can be applied as a single- or split-rate application in the South for control of both crabgrass and goosegrass.
2. Pendimethalin provides excellent control of goosegrass with a single application.

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performance and proven t

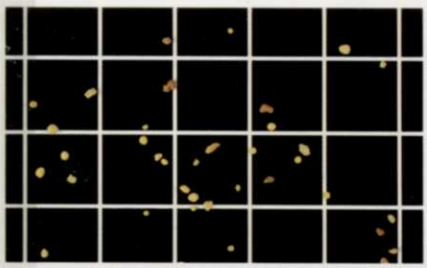
Application Flexibility

	Repeat Applications Allowed By Label	Single Application Control Effectiveness	
		Crabgrass	Goosegrass (South)
Dimension	NO	YES	NO
Barricade	YES	YES	NO
Pendimethalin	YES	YES	YES

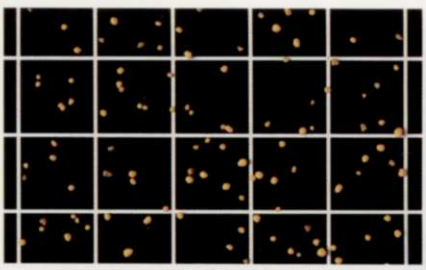
Scott Formulation Advantage

Pendimethalin particles are smaller and more consistently sized than typical competitive physical blends, reducing segregation potential while providing up to 3 times the coverage with Scotts Poly-S™/pendimethalin product and up to 8 times the coverage per square inch with Scotts Triaform™/pendimethalin product.

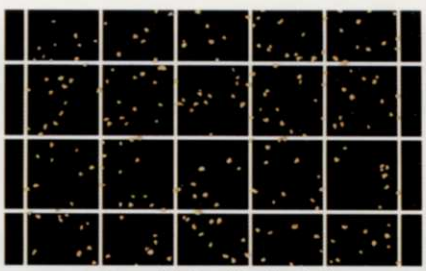
Note the improved particle distribution pattern achieved with Scotts fine-particle Triaform/pendimethalin fertilizer and Scotts Poly-S/pendimethalin fertilizer products. Such distribution means the active ingredient is more evenly distributed over the soil surface for more consistent control and fewer application breaks. Uniformly sized particles reduce segregation potential and improve spreadibility. Field tests show that poorly formulated combination products may sacrifice preemergent weed control by up to 15% or more. (Each square in the graph below represents a 1-inch square area.)



Typical Large-Particle Blended Product



Scotts Poly-S/Pendimethalin



Scotts Triaform/Pendimethalin

Typical Large-Particle Blended Product

Scotts Poly-S/Pendimethalin

Scotts Triaform/Pendimethalin

Uniformly sized particles reduce segregation potential and improve spreadability.
Poorly formulated combination products may sacrifice weed control by up to15% or more.

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Turf Safety

When used as directed, pendimethalin products have proven to be safe on a variety of cool and warm season grasses, including:

Cool Season Grasses	Warm Season Grasses
Kentucky Bluegrass	Bermudagrass
Perennial Ryegrass	Zoysiagrass
Fine Fescue	Bahiagrass
Tall Fescue	St. Augustinegrass
Creeping Bentgrass*	Centipedegrass

* For use on Creeping Bentgrass maintained at 1/2" or taller.

Root Effects and Turf Quality/Density

Research studies conducted since 1984 show that pendimethalin, when used according to label directions, does not reduce root growth on cool and warm season grasses compared to other preemergent herbicides. And university studies have shown that turf quality, turf density and sod strength are equal to or better than other preemergent herbicides tested. Turfgrasses show excellent tolerance to applications of pendimethalin even at the higher labeled rates (3.0 lbs. A.I./Acre).

Seeding/Reseeding

The practice of seeding cool season grasses is an intergral component of almost every turf manager's program. In the North, seeding may be done to renovate worn tee boxes or to increase turf density on fairways, roughs or lawns. In the South, ryegrass overseeding is a common practice used to enhance the winter appearance and playability of golf courses and other turf areas. When selecting a preemergent herbicide, it is important to understand the effect that the herbicide residual may have on your seeding/overseeding program.

Product	Rate (Lbs. A.I./Acre)	Seeding Interval (Months) Drill	Broadcast
Dimension	0.50	3*	3*
Barricade	0.33-0.50	3-4**	4-6**
Barricade	0.50-1.00	6-8**	8-12**
Barricade	1.00-1.50	9-12**	12-18**
Pendimethalin	3.0	4***	4***

* Label states that seeding within three months of application may inhibit establishment of desirable turfgrass.
** From RegalKade 37 label directions. RegalKade is a product of Regal Chemical Company.
*** Label states to delay seeding four months following application.
NOTE: Barricade 65WG label states: Do not apply to spring seeded turf or newly set sod until the following year.

Pendimethalin's favorable combination of chemical and physical properties allows for season-long weed control and yet still offers the flexibility for safe, successful seeding/overseeding programs.

For more information about Scotts pendimethalin products, contact your Scott Tech Rep. Or call 1-800-543-0006.

Scotts
ProTurf

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